Docket: 0756-1441

## In the claims

Please add new claims 15-28 as follows:

--15. A device for reading an image comprising:

a semiconductor layer formed on a substrate, said semiconductor layer comprising an image sensor region and a semiconductor switch region adjacent to and operatively connected with said image sensor region,

wherein said semiconductor layer has a semi-amorphous structure comprising a mixture of amorphous and crystalline structures, in which a Raman spectrum of the semiconductor film exhibits a peak deviated from that which stands for a single crystal of the semiconductor.

- 16. The device of claim 15 wherein said semiconductor layer comprises hydrogen doped silicon.
- 17. The device of claim 15/wherein said semiconductor switch region comprises a thin film transistor of which active region is formed of said semiconductor layer.
- 18. The device of claim 15 wherein said image sensor region comprises at least two semiconductor regions having different electrical properties and forming a junction.
- 19. A device for reading an image produced by a process comprising the steps of:

depositing a semiconductor material on a substrate;

forming a/photoelectric conversion semiconductor device on said substrate comprising a p-type impurity semiconductor region, an intrinsic semiconductor region, and an n-type impurity semiconductor region, a semiconductor region of said

Docket: 0756-1441

photoelectric conversion semiconductor device being made of said semiconductor material; and

forming a thin film transistor on said substrate which constitutes an electric circuit required to read an image, a semiconductor region of said thin film transistor being made of said semiconductor material;

wherein said semiconductor regions are arranged in order with said p-type impurity semiconductor region adjacent said intrinsic semiconductor region and said intrinsic semiconductor region adjacent said n-type impurity semiconductor region in said photoelectric conversion semiconductor device, said order being in a direction perpendicular to that in which an image to be read is incident thereon.

- 20. The device of claim 19 wherein said two semiconductor regions of the image light sensor region are laterally arranged on said substrate.
- 21. The device of claim 19 wherein said photoelectric conversion semiconductor device further comprises an amorphous semiconductor film provided on a side of said intrinsic semiconductor region on which said image is incident through said amorphous semiconductor film.
  - 22. A device for reading an image comprising:

a semiconductor layer formed on a substrate, said semiconductor layer comprising an image sensor region and a semiconductor switch region adjacent to and operatively connected with said image sensor region,

wherein said semiconductor layer has at least one of an electron mobility 15-100 cm<sup>2</sup>/V·sec and a hole mobility 10-100 cm<sup>2</sup>/V·sec.

MX

Docket: 0756-1441

23. A device for reading an image comprising:

a semiconductor layer formed on a substrate, said semiconductor layer comprising an image sensor region and a semiconductor witch region adjacent to and operatively connected with said image sensor region,

wherein said semiconductor layer has a semi-amorphous structure in which a Raman spectrum of the semiconductor film exhibits a peak deviated from that which stands for a single crystal of the semiconductor, and said semiconductor switch region comprises complementary p-channel and n-channel thin film transistors.

- 24. The device of claim 23 wherein said semiconductor film comprises hydrogen doped silicon.
- 25. The device of claim 23 wherein said image sensor region comprises at least two semiconductor regions having different electrical properties and forming a junction.
- 26. The device of claim 25 wherein said two semiconductor regions in said image sensor region are arranged in a lateral direction on said substrate.
- 27. The device of claim 23 wherein said semiconductor layer has at least one of an electron mobility in a range from 15 to 100 cm<sup>2</sup>/V sec and a hole mobility in a range from 10 to 100 cm<sup>2</sup>/V sec.
- 28. The device of claim 15 wherein said semiconductor layer has at least one of an electron mobility in a range from 15 to  $100 \text{cm}^2/\text{V} \cdot \text{sec}$  and a hole mobility in a range from 10 to  $100 \text{ cm}^2/\text{V} \cdot \text{sec}$ .

